

# Purchase Order Receipt Listing

Tuesday, June 20, 2017 4:27:32 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO36707 All Receipt Dates All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID \ Vendor Name</b> VC-CAM002 <del>Acier Ouellette Inc.</del>											
PO36707	2		M304B0.625X3.000 f	f	6/20/2017	6/20/2017	12.9000 ✓	\$17.96	0.0000	0	\$231.71
CAD	No		304 BAR .625 X 3.00 f m137844	f	12.0000	PLOU01		\$231.71	0.0000	0	
	3		M304RO.750 7.47 f	f	6/20/2017	6/20/2017	24.8000 ✓	\$3.45	0.0000	0	\$85.52
	No		304 SS Roundbar .750 f m137844	f	24.0000	PLOU01		\$85.52	0.0000	0	
	4		M304S16GA sf	sf	6/20/2017	6/20/2017	64.0000 ✓	\$4.82	0.0000	0	\$308.55
	No		304 3/16 Sheet .063 m137844	sf	64.0000	PLOU01		\$308.55	0.0000	0	
	5		M5052H32S.040 38 sf	sf	6/20/2017	6/20/2017	64.0000 ✓	\$1.96	0.0000	0	\$125.62
	No		5052-H32.040 Sheet m137844	sf	64.0000	PLOU01		\$125.62	0.0000	0	
	6		M6061T6B0.375X01. f	f	6/20/2017	6/20/2017	40.0000 ✓	\$0.83	0.0000	0	\$33.19
	No		6061T6 BAR .375 x 1.00 m137844	f	40.0000	PLOU01		\$33.19	0.0000	0	
	7		M6061T6R0.625 f	f	6/20/2017	6/20/2017	20.0000 ✓	\$0.72	0.0000	0	\$14.44
	No		6061-T6 Round Bar .625" m137844	f	20.0000	PLOU01		\$14.44	0.0000	0	
	8		M6061T6R3.500 f	f	6/20/2017	6/20/2017	12.0000 ✓	\$26.05	0.0000	0	\$312.58
	No		6061 R3.500 bar 3.50 m137844	f	12.0000	PLOU01		\$312.58	0.0000	0	
	9	P2025331	71900-90 Each	Each	6/20/2017	6/20/2017	1.0000	\$123.50	0.0000	0	\$123.50
	No		TUBE ROUND 3.500" OD X .250" HSS m137844		1.0000	PLOU01		\$123.50	0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-CAM002 Acier Ouellette Inc.											
PO36707	10		71401-45		6/20/2017	6/20/2017	1.0000	\$0.00	0.0000	0	\$0.00
CAD	No		PROCUREMENT QUALITY CLAUSES m137844		1.0000	PL0U01		\$0.00	0.0000	0	
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
239,7000											
0.0000											
0.0000											
\$1,235.10											
0.0000											

## DELIVERY - CLIENT

## ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/06/15

Delivery date

2017/06/20

Your order N°

36707

## Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

1270 ABERDEEN  
HAWKESBURY

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

At : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 1

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		ALU SHEET .040 (18G) 2024-T3 48 (4 X 12) FEAL-0404122024B 3118 1 X 4' X 12' HEAT:	27.02	48.00	PI2_\$CLB						
2		PLAT SS 304 5/8 X 3 (12R) 1 X 12' R/L HEAT:56170113 3 ROUND SS 3/4 304 (12R) RSS-34-12 5759 2 X 12' R/L HEAT:CH-4835	36.05	24.00	PI1_\$CLB						
4		SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B 3419 2 X 4' X 8' HEAT:849874	168.00	64.00	PI2_\$CLB						
5		ALU SHEET .040 (18G) 5052-H32 (4 X 8) FEAL-040485052 3124 2 X 4' X 8' HEAT:1A366-2-5-I	36.03	64.00	PI2						

NIR : R-109516-6

Next Page...

## DELIVERY - CLIENT

## ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/06/15

Delivery date 2017/06/20

Your order N° 36707

Processed by Josianne Bourdon

Salesman OUELLETTE VALLEYFIELD

Carrier Net 30 Days

Credit Terme 2

Page 2

## Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

1270 ABERDEEN  
HAWKESBURY

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
6 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610 2 X 20' HEAT: 13121091A	18.00	40.00	PL_\$CLB							
7 ROUND ALU 5/8 6061-T6 (20) RAL-58-20 5168 1 X 20' HEAT: 68259	7.22	20.00	PL_\$CLB							
8 ROND AL 6061T6 3 1/2" DIA (12) N 1 X 12' HEAT: 1501624	1.00	1.00	UN							
9 TUBE ROUND 3.500 OD X .250 HSS (24) TR-3500250-24 6846 1 X 24' HEAT: 781139	208.56	24.00	PL_\$CLB							

NIR : R-109516-6

Total Weight (Lbs) : 500.88

**Conditions :**  
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total (\$CAD)

Prepared By :	Verified By :	Delivered By :	Time

Customer's Signature

Date

**BOLLINGHAUS**  
**STEEL**

Bollinghaus Steel, SA  
DIN EN ISO 9001:2008  
TUV CERT No. 01 100 030458

Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade

EN 10204:2004 / 3.1

No.: / Nr.: / Nr.:

0000127395

Unsere innere Verweisung / Our Int. Ref / N/ ref int

5600034598 000040

Datum / Date / Data

11.04.2017

Normen / Standards / Normas

TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-18a, ASTM A182/A182M-18a, ASTM A193/A193M-16 ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5639H, AMS 5647J, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order Nr./Enc.Nr. C107841

Bestell Nr./Order Nr./Enc.Nr. C107841.2

Produktgruppe / Product Group / Grupo Produto

Gewicht / Weight / Peso

Bunde / Bundle / Atados

AIISI 304/L FLAT 5/8 X 3"

2.060 lb

02

Werkstoff-Nr.  
Material-no.  
Qualidade

1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma do material

X 2 CrNi 18-9

Beschreibung / Description / Descrição

Stainless steel flat bars, hot rolled, heat treated, straightened and pickled.  
US DFR 252,225-7009; MELT SOURCE: United Kingdom / MFG: Portugal.

Schmelz-Nr.  
Cast nr.: Forno nr.

Chemische Analyse in % / Chemical composition in % / Análise química em %

56170113

C

0.018

Si

0.300

Mn

1.730

P

0.032

S

0.025

Cr

18.290

Ni

8.090

EAF-AOD

Mo

0.380

Co

0.236

Cu

0.440

N

0.080

Ti

0.003

Nb

0.031

Al

0.007

ASTM E399

ASTM A370

Kerbschlagarbeit

Impact Test

Resiliência

(Charpy V)

[J]

205.0

Streckgrenze

Yield point

Tensão limite

Rp 0.2 %

[Ksi]

54.4

Dehngrenze

1% point

Limite de extensão

Rp 1.0%

[Ksi]

58.7

Zugfestigkeit

Tensile strength

Tensão de ruptura

Rm

[Ksi]

98.0

Dehnung

Elongation

Alongamento

A5

[%]

57.2

Einschnürung

Reduction of area

Coef. Estricção

Z

[%]

70.3

Visuelle Kontrolle  
Visual inspection  
Inspeção visual

☒

Ok

ASTM E10

Härte  
Hardness  
Dureza

190

[HB]

ASTM A262 Practice E

Korrosionsbeständigkeit

IC Test

Corrosão Intermetálica

☒

Ok

Wärmebehandlung  
Heat treatment  
Tratamento térmico

Annealed Quenched 1800°F (1050°C)

(water quenched)

ASTM A484

Maßkontrolle  
Dimensional inspection  
Inspeção dimensional

☒

Ok

ASTM E112

Korngröße  
Grain size  
Tamanho de grão

9

Verwechslungsprüfung  
Test of identity  
Teste de identificação

☒

Ok

Makroskopische Untersuchung  
Macrographic test

Material free from  
segregation defects.

☒

Ok

Werkstoffverständiger  
Quality Control Representative  
Inspector de Qualidade

W305M

Nuno Silva (N-NS)

Bollinghaus Steel, SA

Bemerkungen / Remarks / Observações  
Country of origin: Portugal. No weld repair done.  
Material is free of mercury and radiation contamination.

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.  
We confirm that this material meets the specification according to the mentioned standards.  
Confirmamos que este material respeita as especificações de acordo com as normas referidas.

129.K.PP

19952  
es6661

# 5759

48110

PO 6548



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. 01 20 01 0002

ADM. OFFICE: 2nd Floor, 1st &amp; 2nd Floor, Main Road, Sector-10, Gurgaon

Tel: 91-20-4288888 Fax: 91-20-4288888/20

Website: www.chandansteel.com

Email: info@chandansteel.com

L/c. No.:

L/c. Date:

WORKS: Plot No. 36, G.I.D.C., Unbargana

Dist. Valsad, Gujarat - 388 171.

Tel: 91-255-888 9999 Fax: 91-255-888 9972

Email: export@chandansteel.com

FETA QC 09A / 02 / 10.12.2012

## MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

<b>PRODUCT DESCRIPTION</b> <b>STAINLESS STEEL ROUND BARS</b>					<b>Test Certificate No. :</b> EXP/01194 - 10/2016-2017						
					<b>Date of Issue :</b> 05.01.2017						
					<b>P. O. No. :</b> MN5426						
					<b>SC No. &amp; Date :</b> 16-17/00499, Dt. 29.10.2016						
					<b>Invoice No. &amp; Date :</b> EXP/01194/2016-17 Dt. 05.01.2017						
					<b>LENGTH</b>						
					<b>Ordered</b>	<b>Actual</b>					
					12' - 14'	12' - 14'					
					<b>Net Wt.</b> 1237 Lbs.						
<b>Heat No.</b> CH-4835	<b>Grade</b> AISI 304L	<b>Size</b> mm/inches 3/8"	<b>Tolerance</b> h9	<b>Process Route</b> Electric Melting, A.O.D. Refining, Continuous Casting							
<b>CHEMICAL COMPOSITION (Weight %)</b>											
	C	Si	Mn	P	S	Cr	Mo	Ni	Ca	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.050	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.025	0.40	1.74	0.041	0.007	18.10	-	8.02	-	-	-
<b>MECHANICAL PROPERTIES</b>											
Specified	Yield Strength		Tensile Strength		Elongation		Reduction of Area		Hardness		
Value	N/mm <sup>2</sup> /MPa (Rp0.2)		N/mm <sup>2</sup> /MPa (Rm)		%		%		(H10)		
Min.	170		485		30		40		-		
Max.	-		-		-		-		-		
Results	462		730		42		63		229-232		
<b>Remarks:</b>											
1. Cold drawn & Centreline Ground.											
2. Solution annealed at 1050 °C.											
3. PMI test done 100% & found Satisfactory.											
4. Material is free from radio-active contamination.											
5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.B) satisfactory.											
6. The material conforms to ASTM A276-15/A313-15/A679-15 Specifications.											
7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.											
8. Marking details - Company Logo, Size, Grade & Heat No.											
9. The material is manufactured / melt in Chandan Steel Mill and is of Indian Origin.											
10. No welding/weld repairs was performed on this material.											
<b>BUNDLE NO.:</b> 9											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

**B. S. RAUTELA**  
MANAGER - QUALITY ASSURANCE



NOTICE OF SHIPMENT /  
PACKING LIST

#3419



48191

CERTIFICATE OF 1ES1  
015063

CUST. ORD. NO. & DATE: P206081  
 FORMS DISTRIBUTION: 109/15/16 329587  
 SOLD TO: 1 SHIP TO: 1  
 SOLID TO: 3S  
 FINISHING LOCATION: VANDERGRIFF, PA  
 REPEAT ORDER: 99108-2  
 RATE ORTY: 7219.90.0000  
 PRIME SEC. DSO DSO 30  
 SHIPPER NO.: 13020102060000  
 PRODUCT CODE: 130-096-243  
 MILL ORDER NUMBER: 1121 VANDERGRIFF  
 DATE SHIPPED: 12/13/16  
 INVOICE: 657047  
 SHIP TO: AMERINOX BLDG 90 HARRIS TERMINAL 2201 MT. EPPERAIM AVENUE CAMDEN NJ 08104

GRADE AND SPECIFICATIONS

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-262-14 PRACTICE E)  
 (ASME-SA-240 ED 2015) (EN 10028-7:2007-1.4301-2B) (ASTM-A-240-16) (UNS S30400)

ITEM	PCS	DIMENSIONS	W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID
001	1	48./.	.059/2029.	849874	AAB59755-B	8842285	19345	50	19295		469113		
→ C CUST IDENTITY 3042B16GX48XC 1 SKID													

ORDER REMARKS: EXM - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER  
 DIST: PLEASE MAIL ACKNOWLEDGMENTS TO DIVERSIFIED ULBRICH 98 NORFINCH DRIVE DOWNSVIEW, ONTARIO  
 CANADA M3N1X1 ATTN: ANNE DIRKSEN-CAIROLI

TYPE	HEAT/TEST	(WT %)	YIELD	TENSILE	% ELONG	% R/A	HARDNESS	BEND	A 262	PR E	SIZE	HARDENABILITY
HEAT	849874		PSI *	PSI	IN 2"		NR	83.HRBW	T PASS	PASS	NR	
TEST LOCATION	BN	BN	BN	BN	BN	BN	BN	BN	BN	BN	BN	
ITEM TEST NO	001	8842285	T 48200.	96900.	53. #			85.HRBW	TC	TC		
TEST LOCATION			* Y.S. BY	0.2% OFFSET METHOD								
ITEM TEST NO	001	8842285	T-YIELD	1%								
TEST LOCATION			TC									
			52600.									

PAGE 01 - CONTINUED ON PAGE 02

12/13/16 08:21:39

CONSIGNEE: Please Note- This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on receipt before signing.

WARNING: Safety Data Sheets for this product are available on our website, www.ATimeless.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Stephen Wolf - Director, Corporate Quality Assurance



NOTICE OF SHIPMENT /  
PACKING LIST



Flat Rolled Products

CERTIFICATE OF TEST

CUST. ORG. NO. & DATE		CUST. CODE		FINISHING LOCATION		SHIPPER NO.		PRODUCT CODE		MILL ORDER NUMBER		DATE SHIPPED	
P206081		09/15/16 329587		VANDERGRIFF, PA		522741		13020102060000		30-096-243		12/13/16	
FORMS DISTRIBUTION		REPEAT ORDER		DO RATE ORITY		GOVT CONTRACT		MATERIAL		SHIPPING LOCATION		INVOICE	
SOLD TO 1 SHIP TO 1		99108-2		26		7219.90.0000		1121		VANDERGRIFF		PA 657047	
SOLD TO		PRIME SEC.		DSO		DSO		SHIP TO		PA		657047	

AMERINOX  
BLDG 90 HARRIS TERMINAL  
2201 MT. EPPERAIM AVENUE  
CAMDEN NJ 08104

GRADE  
"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE  
CARRIER - M & A TRANSPORT

# ELONG AT FRACTURE

NR = DATA NOT REQUIRED  
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.

THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN, DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT.

THIS CERTIFIED MATERIAL TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI FRP HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI FRP QUALITY MANUAL REVISION 24 DATED 10/16/2015.

PAGE 02 - CONTINUED ON PAGE 03

12/13/16 08:21:39

CONSIGNEE: Please Note-This consignment was turned over to carrier in full clear condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING  
Safety Data Sheets for this product are available on our website, www.AIRollProducts.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in AIR Flat Rolled Products' Order Acknowledgement.

Stephen Wolf -  
Director, Corporate Quality Assurance



## Flat Rolled Products

CUST. ORD. NO. &amp; DATE

### FORMS DISTRIBUTION

SOLD TO	1	SHIP TO
---------	---	---------

**SOLD TO**

CUST. CODE

109/15/16 329587

### FINISHING LOCATION

VANDERGRIFT, PA 1522741  
REPEAT | DO | PRI- | GOVT CONTRACT

NEPAT ORDER	DO RATE	PRI-ORITY	GOVT CONTRACT
99108-2	26		7219.90.0000

DEC 1960  
DSO

30

AMERINOX  
BLDG 90 HARRIS TERMINAL  
2201 MT. EPHRAIM AVENUE  
CAMDEN NJ 08104

PRODUCT CODE

PRODUCT CODE	13020102060000	MILL ORDER NUMBER	30-096-243
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SHIPPING LOCATION

11121 VANDERGRIFF | PA  
SHIP TO

PA 657047

INVOICE

DATE SHIPPED \_\_\_\_\_

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE CARRIER

CARRIER - M & A TRANSPORT

ATI FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES FOR TESTING LOCATIONS TC, BN, MI, & LO:

N, U, HBI INERT FUSION/THERMAL CONDUCTIVITY  
MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF  
B BY OES  
AL AND TI ( $\geq 0.10\%$ ) BY WDXRF, OTHERWISE BY OES  
PB, BI, AG BY GPAA

ATI FLAT ROLLED PRODUCTS HAS NO CONTROL OVER CUSTOMER PROCESSING OF MATERIAL; INCLUDING, BUT NOT LIMITED TO, BUFFING OR ELECTROPOLISHING MATERIAL WITH A 2B OR OTHER FINISH, AND DOES NOT REPRESENT OR GUARANTY THAT THE MATERIAL IS SUITABLE FOR ANY PARTICULAR PROCESS OR USE OF CUSTOMER.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

BN = ATI-FLAT ROLLED PRODUCTS; 100 RIVER ROAD, BRACKENRIDGE, PA 15014  
TC = ATI-FLAT ROLLED PRODUCTS; 1300 PACIFIC AVENUE, NATRONA HEIGHTS, PA 15065

<<<<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>>>  
<<<<<<<<< REGISTER AT MYATI.ATIMETALS.COM >>>>>>>>

PAGE 03 - FINAL PAGE.

12/13/16 08:21:39

Consignment: "I, (please name) \_\_\_\_\_ this consignment was turned over to \_\_\_\_\_ carrier in first class condition, being correctly headed, at which time \_\_\_\_\_ our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by \_\_\_\_\_ transportation agent on waybill before signing.

**WARNING**

Safety Data Sheets for this product are available on our website, [www.ATimeals.com](http://www.ATimeals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Stephen Wolf - *Stephen Wolf*  
Director, Corporate Quality Assurance

P204294

## 产品质量证明书

INSPECTION CERTIFICATE

江苏甬金金属科技有限公司



005736.pdf

品名: 不锈钢冷轧钢板和钢带  
No. Cold rolled stainless steel plate,  
sheet and strip

客户名称:

宝 裕

钢种: 304

合同号:

Zaoze, Nantong, Jiangsu, China

标准: ASTM A240

证明书号:

201409022820

Tel: 0513-80608156  
Fax: 0513-80608199  
邮编: 226300

P.C. 226300

序号 No.	表面 Surface	钢卷编号 Coil No.	规格 Size (mm)	重量 Weight (kg)	等级 Grade	拉伸试验 Tensile			硬度 Hardness (HV)	交货状态 State
						抗拉强度 T.S. (N/mm <sup>2</sup> )	屈服强度 Y.S. (N/mm <sup>2</sup> )	伸长率 Elong (%)		
1	2B	YJJ14207755B1	1.95*1250	5287	—	515 以上	205 以上	40 以上	201 以下	退火
2	2B	YJJ14207755B2	1.95*1250	5300	—	652	316	58	177/175/180	退火
3	2B	YJJ14208810A	1.17*1219	6878	—	652	271	58	177/175/180	退火
4	2B	YJJ14208810C	1.17*1219	6705	—	627	271	59	170/173/174	退火
5	2B	YJJ14208811A	1.43*1219	6850 ✓	—	627	271	59	170/173/174	退火
6	2B	YJJ14208812B	1.45*1219	6852 ✓	—	640	283	58	171/174/176	退火
合计				37872		648	282	57	175/175/176	退火

序号 No.	化学成分 Chemical composition %									
	C	Si	Mn	P	S	Cr	Ni	N	Mo	Ti
MIN.	0.00	0.00	0.00	0.00	0.00	18.00	8.00	0.00	/	/
MAX.	0.08	0.75	2.00	0.045	0.03	20.00	10.50	0.10	/	/
1	0.045	0.34	1.14	0.040	0.005	18.27	8.02	0.052	0.03	/
2	0.045	0.34	1.14	0.040	0.005	18.27	8.02	0.052	0.03	/
3	0.044	0.39	1.04	0.034	0.002	18.11	8.09	0.052	0.09	/
4	0.044	0.39	1.04	0.034	0.002	18.11	8.09	0.052	0.09	/
5	0.041	0.42	1.09	0.037	0.003	18.21	8.08	0.054	0.07	/
6	0.039	0.41	1.08	0.030	0.005	18.32	8.09	0.055	0.03	/

\*拉伸试验: 沿用 GB/T 228-2002 标准  
\*硬度试验: 沿用 GB/T 4340.1-2009 标准

\*Tensile Test: use Standard GB/T 228-2002  
\*Hardness Test: use Standard GB/T 4340.1-2009



CG. 36179

6P

浙江永杰铝业有限公司  
Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

To:  
EMPIRE RESOURCES, INC.  
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA  
TEL: 201.944.2200 X 123/ FAX: 201.944.2226  
SHIPPING MARKS: N/M

浙江永杰铝业有限公司  
Zhejiang Yongjie Aluminum Co., Ltd.  
Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

Invoice No.: YJ160317-4  
Date: AUG. 17, 2016

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
202-1	R151655	016070425-2	AA5052-H32	0.125"48"96"	0.124	2.018	2.070	0.120	0.260	0.010	0.010	2.380	-	-	0.010	0.180	97.03	31.9	25.3	9.5
202-2	R151656	016070346-1	AA5052-H32	0.125"48"96"	0.124	1.992	2.048	0.120	0.250	0.010	0.020	2.300	-	-	0.013	0.180	97.10	31.9	26.1	10.0
202-3	R151658	016070345-3	AA5052-H32	0.125"48"96"	0.124	1.968	2.026	0.120	0.250	0.010	0.020	2.300	-	-	0.013	0.180	97.10	31.9	26.1	10.0
202-4	R151644	016070724-3	AA3003-H14	0.250"48"96"	0.249	1.957	2.016	0.080	0.420	0.080	1.150	0.010	-	-	0.016	-	98.24	21.0	17.5	25.5
202-5	R151644	016070724-4	AA3003-H14	0.250"48"96"	0.249	1.954	2.016	0.080	0.420	0.080	1.150	0.010	-	-	0.016	-	98.24	21.0	17.5	25.5
202-6	R151644	016070563-4	AA3003-H14	0.090"48"120	0.090	2.026	2.094	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	20.7	19.5	11.5
202-7	R151647	016070563-1	AA3003-H14	0.090"48"120	0.090	2.028	2.096	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	20.7	19.5	11.5
202-8	R151647	016070563-2	AA3003-H14	0.090"48"120	0.090	2.027	2.092	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	20.7	19.5	11.5
202-9	R151647	016070563-3	AA3003-H14	0.090"48"120	0.090	2.029	2.096	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	20.7	19.5	11.5
202-10	R151629	016070552-3	AA3003-H14	0.080"48"120"	0.080	2.037	2.068	0.340	0.440	0.120	1.280	0.050	-	-	0.014	-	97.75	21.2	18.9	8.5
203-1	R151658	016070394-4	AA5052-H32	0.125"48"120"	0.124	1.926	1.988	0.080	0.230	0.010	0.010	2.450	-	-	0.012	0.180	97.02	32.9	26.1	10.5
203-2	R151658	016070394-1	AA5052-H32	0.125"48"120"	0.124	1.989	2.050	0.080	0.230	0.010	0.010	2.450	-	-	0.012	0.180	97.02	32.9	26.1	10.5
203-3	R151629	016070624-3	AA3003-H14	0.080"48"120"	0.080	1.996	2.060	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	20.5	18.5	12.0
203-4	R151629	016070661-4	AA3003-H14	0.080"48"120"	0.080	2.034	2.066	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	21.0	19.3	10.5
203-5	R151629	016070561-1	AA3003-H14	0.080"48"120"	0.080	2.001	2.064	0.340	0.440	0.120	1.280	0.050	-	-	0.014	-	97.75	21.9	20.4	8.5
203-6	R151629	016070552-1	AA3003-H14	0.080"48"120"	0.080	1.969	2.036	0.340	0.440	0.120	1.280	0.050	-	-	0.014	-	97.75	21.2	18.9	8.5
203-7	R151576	016070644-1	AA3003-H14	0.125"48"96"	0.124	1.829	1.892	0.150	0.480	0.080	1.020	0.010	-	-	0.015	-	98.22	20.2	17.6	10.0
203-8	R151576	016070644-2	AA3003-H14	0.125"48"96"	0.124	1.892	1.940	0.150	0.490	0.090	1.020	0.010	-	-	0.015	-	98.22	20.2	17.6	10.0
203-9	R151576	016070644-3	AA3003-H14	0.125"48"96"	0.124	1.831	1.889	0.150	0.490	0.090	1.020	0.010	-	-	0.015	-	98.22	20.2	17.6	10.0

MATERIAL CONFORMS TO ALLOY 5052, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/28 AND AMS-4016L AND MATERIAL IN ALLOY 3003, H14 /5052.  
H32 CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

# 浙江永杰铝业有限公司

## Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

### MILL TEST

To: EMPIRE RESOURCES, INC.  
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA  
TEL: 201.944.2200 X 123 FAX: 201.944.2226

Invoice No.: YJ160817-4  
Date: AUG. 17, 2016

SHIPPING MARKS: N/M

Packaging No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickness	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongation (%)
203-10	R151654	016070384-1	AA5052-H32	0.125"48"96"	0.124	1.972	2.322	0.090	0.250	0.001	0.004	2.700	-	0.005	0.011	0.180	96.73	33.1	26.0	12.5
203-11	R151664	016070345-2	AA6052-H32	0.125"48"96"	0.124	1.966	2.322	0.120	0.250	0.010	0.020	2.300	-	-	0.013	0.180	97.10	31.9	26.1	10.0
204-1	R151646	016070724-5	AA3003-H14	0.250"48"96"	0.249	1.749	1.912	0.080	0.420	0.080	1.150	0.010	-	-	0.016	-	98.24	21.0	7.5	25.5
204-2	R151646	016070733-1	AA3003-H14	0.125"48"96"	0.124	1.934	1.992	0.090	0.480	0.080	1.110	0.010	-	-	0.015	-	98.21	23.2	21.0	9.5
204-3	R151646	016071035-1	AA3003-H14	0.25"48"96"	0.124	1.908	1.998	0.080	0.460	0.080	1.110	0.010	-	-	0.012	-	98.24	20.3	17.3	13.5
204-4	R151576	016071035-3	AA3003-H14	0.25"48"96"	0.124	1.910	1.970	0.080	0.460	0.080	1.110	0.010	-	-	0.012	-	98.24	20.3	17.3	13.5
204-5	R151576	016071035-4	AA3003-H14	0.25"48"96"	0.124	1.909	1.972	0.080	0.460	0.080	1.110	0.010	-	-	0.012	-	98.24	20.3	17.3	13.5
204-6	R151576	016070733-4	AA3003-H14	0.125"48"120"	0.124	1.997	2.098	0.090	0.480	0.080	1.110	0.010	-	-	0.015	-	98.21	23.2	21.0	9.5
204-7	R151576	016070733-3	AA3003-H14	0.125"48"120"	0.124	1.996	2.094	0.090	0.480	0.080	1.110	0.010	-	-	0.015	-	98.21	23.2	21.0	9.5
204-8	R151576	016070625-5	AA3003-H14	0.063"48"120"	0.063	1.977	2.038	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	21.2	18.9	7.0
204-9	R151576	016070625-6	AA3003-H14	0.063"48"120"	0.063	1.993	2.034	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	21.2	18.9	7.0
204-10	R151629	016070624-2	AA3003-H14	0.080"48"120"	0.080	1.999	2.060	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	20.6	18.6	12.0
204-11	R151629	016070624-6	AA3003-H14	0.080"48"120"	0.080	1.998	2.060	0.340	0.440	0.120	1.280	0.050	-	-	0.014	-	97.75	21.2	18.3	8.5
205-1	R151645	016070724-2	AA3003-H14	0.250"48"96"	0.249	1.801	1.854	0.080	0.420	0.080	1.150	0.010	-	-	0.016	-	98.24	21.0	17.5	25.5
205-2	R151652	2A938-15-2-3	AA5052-H32	0.050"48"96"	0.049	2.184	2.232	0.050	0.300	0.010	0.007	2.580	-	0.005	0.010	0.220	96.77	35.0	26.7	12.0
205-3	R151652	2A931-21-1	AA5052-H32	0.050"48"96"	0.050	1.983	2.034	0.060	0.300	0.010	0.010	2.600	-	0.005	0.020	0.220	96.73	35.3	25.7	11.0
205-4	R151555	016060864-3	AA5052-H32	0.050"48"96"	0.050	1.869	1.924	0.110	0.210	0.020	0.010	2.360	-	-	0.013	0.170	97.10	32.9	26.7	7.5
205-5	R151555	2A938-15-2-2	AA5052-H32	0.050"48"96"	0.049	1.780	1.832	0.050	0.300	0.010	0.007	2.580	-	0.005	0.010	0.220	96.77	36.3	26.7	12.0
205-6	R151552	016060864-2	AA5052-H32	0.050"48"120"	0.050	1.899	1.960	0.110	0.210	0.020	0.010	2.360	-	-	0.013	0.170	97.10	32.9	26.7	7.5

MATERIAL CONFORMS TO ALLOY 5052, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008, COUNTRY OF MELT AND MANUFACTURE IN CHINA.  
H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

**浙江永杰铝业有限公司**  
**Zhejiang Yongjie Aluminum Co., Ltd.**  
 Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

**MILL TEST**

To: EMPIRE RESOURCES, INC.  
 2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA  
 TEL: 201.944.2200 X 123/ FAX: 201.944.2226

浙江永杰铝业有限公司  
 ZHEJIANG YONGJIE ALUMINUM CO., LTD.  
 311222, China

Invoice No.: YJ160874  
 Date: AUG. 17, 2015

Packaging No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %											MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)	
205-7	R151652	016060894-1	AA5052-H32	0.050" 48" 120"	0.050	1.893	1.954	0.110	0.210	0.020	0.010	2.360	--	--	0.013	0.170	97.10	32.5	20.7	7.5	
205-8	R151525	016070433-3	AA5052-H32	0.500" 48" 120"	0.494	1.874	1.936	0.120	0.240	0.010	0.010	2.380	--	--	0.012	0.180	97.03	31.9	25.4	22.0	
205-9	R151654	016070385-2	AA5052-H32	0.125" 48" 120"	0.125	1.962	2.016	0.080	0.240	0.010	0.010	2.460	--	--	0.012	0.180	96.99	32.9	26.5	9.0	
205-10	R151628	016070631-2	AA3003-H14	0.053" 48" 120"	0.063	2.026	2.088	0.160	0.510	0.080	1.000	0.010	--	--	0.015	--	96.22	21.2	19.6	6.0	
205-11	R151628	016070631-4	AA3003-H14	0.053" 48" 120"	0.063	2.007	2.068	0.160	0.510	0.080	1.000	0.010	--	--	0.015	--	96.22	21.2	19.6	6.0	
206-1	R151645	016071215-2	AA5052-H32	0.250" 48" 120"	0.249	4.304	4.342	0.080	0.200	0.010	0.010	2.370	--	--	0.010	0.180	97.14	34.1	26.1	15.0	
206-2	R151649	016071215-1	AA5052-H32	0.250" 48" 120"	0.249	4.400	4.436	0.080	0.220	0.010	0.010	2.370	--	--	0.010	0.180	97.14	34.1	26.1	15.0	
206-3	R151661	016071092-1	AA5052-H32	0.250" 48" 120"	0.245	4.418	4.452	0.080	0.240	0.010	0.010	2.380	--	--	0.010	0.150	97.11	32.8	24.7	14.0	
206-4	R151661	016071095-1	AA5052-H32	0.250" 48" 120"	0.250	4.420	4.458	0.080	0.240	0.010	0.010	2.380	--	--	0.010	0.150	97.11	32.5	24.8	14.0	
206-5	R151629	016070551-4	AA3003-H14	0.080" 48" 120"	0.080	2.000	2.062	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.6	20.4	8.5	
206-6	R151628	016070624-1	AA3003-H14	0.080" 48" 120"	0.080	1.998	2.062	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	20.6	19.6	12.0	
206-7	R151626	016070551-2	AA3003-H14	0.080" 48" 120"	0.080	2.003	2.064	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.6	20.4	8.5	
206-8	R151628	016070551-5	AA3003-H14	0.080" 48" 120"	0.080	2.001	2.064	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.8	20.4	8.5	
207-1	R151525	1A366-2-5-2	AA5052-H32	0.040" 48" 120"	0.039	4.569	4.640	0.040	0.220	0.010	0.020	2.470	--	0.004	0.020	0.200	96.95	34.2	26.8	6.5	
207-2	R151525	016061092-1	AA5052-H32	0.040" 48" 120"	0.039	4.291	4.356	0.110	0.220	0.010	0.010	2.400	--	--	0.011	0.170	97.06	33.5	26.0	7.0	
207-3	R151525	1A366-2-5-1	AA5052-H32	0.040" 48" 120"	0.039	4.422	4.492	0.040	0.200	0.010	0.020	2.470	--	0.004	0.020	0.200	96.95	34.2	26.8	6.5	
207-4	R151525	016061092-2	AA5052-H32	0.040" 48" 120"	0.039	4.305	4.374	0.110	0.220	0.010	0.010	2.400	--	--	0.011	0.170	97.06	33.5	26.0	7.0	
207-5	R151525	016070562-3	AA3003-H14	0.080" 48" 144"	0.080	1.946	2.024	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.0	
207-6	R151525	016070562-1	AA3003-H14	0.080" 48" 144"	0.080	1.945	2.026	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.0	

MATERIAL CONFORMS TO ALLOY 5052, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/BB AND AMS-4016L AND MATERIAL IN ALLOY 3003, H14/5052.  
 H32 CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/BB AND AMS-4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

# 浙江永杰铝业有限公司

## Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

### MILL TEST

To:

EMPIRE RESOURCES, INC.

2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA

TEL: 201.944.2200 X 123/ FAX: 201.944.2226

SHIPPING MARKS: N/M

浙江永杰铝业有限公司

2013.08.17

Invoice No.: YJ160817-4  
Date: AUG. 17, 2013

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn esses	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
207-7	R151525	016070562-2	AA3003-H14	0.080"±48"±144"	0.080	1.946	2.022	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.0
207-8	R151526	016070562-4	AA3003-H14	0.080"±48"±144"	0.080	1.899	1.972	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.0
209-1	R151546	016070155-1	AA5052-H32	0.250"±48"±144"	0.249	4.216	4.250	0.080	0.210	0.010	0.010	2.340	--	--	0.011	0.180	97.14	31.6	23.9	15.0
209-2	R151568	016071092-2	AA5052-H32	0.250"±48"±144"	0.249	4.450	4.488	0.050	0.240	0.010	0.010	2.380	--	--	0.010	0.160	97.11	32.8	24.7	14.0
208-3	R151680	016071033-1	AA5052-H14	0.125"±48"±144"	0.124	4.594	4.630	0.080	0.460	0.080	1.110	0.010	--	--	0.012	--	98.24	20.3	17.8	10.5
208-4	R151680	016071033-2	AA5052-H14	0.125"±48"±144"	0.124	4.289	4.324	0.080	0.460	0.080	1.110	0.010	--	--	0.012	--	98.24	20.3	17.8	10.5
208-5	R151680	016070573-1	AA5052-H14	0.125"±48"±144"	0.125	4.658	4.694	0.360	0.480	0.120	1.240	0.010	--	--	0.015	--	97.77	21.0	19.0	10.5
208-6	R151523	216070952-1	AA5052-H32	0.500"±90"±144"	0.489	1.882	1.978	0.090	0.230	0.009	0.040	2.470	--	0.005	0.021	0.170	96.95	31.3	23.8	24.5
208-7	R151523	216070952-4	AA5052-H32	0.500"±90"±144"	0.489	1.504	1.598	0.090	0.230	0.009	0.040	2.470	--	0.005	0.021	0.170	96.95	31.3	23.8	24.5
209-1	R151660	016070734-1	AA3003-H14	0.125"±48"±144"	0.125	4.350	4.384	0.090	0.480	0.080	1.110	0.010	--	--	0.015	--	98.21	21.5	19.1	11.0
209-2	R151660	016070734-2	AA3003-H14	0.125"±48"±144"	0.125	4.506	4.540	0.090	0.480	0.080	1.110	0.010	--	--	0.015	--	98.21	21.5	19.1	11.0
209-3	R151660	016070715-2	AA3003-H14	0.125"±48"±144"	0.124	4.387	4.418	0.110	0.450	0.080	1.090	0.010	--	--	0.017	--	98.24	20.3	17.8	13.0
209-4	R151680	016070715-1	AA3003-H14	0.125"±48"±144"	0.124	4.518	4.562	0.110	0.450	0.080	1.090	0.010	--	--	0.017	--	98.24	20.3	17.8	13.0
209-5	R151526	016070625-2	AA3003-H14	0.063"±48"±144"	0.063	1.884	2.060	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	21.2	18.9	7.0
209-6	R151526	016061194-4	AA3003-H14	0.063"±48"±144"	0.062	1.985	2.070	0.170	0.540	0.090	1.030	0.020	--	--	0.014	--	98.13	20.6	19.3	8.0
209-7	R151526	016061194-3	AA3003-H14	0.063"±48"±144"	0.062	1.896	2.074	0.170	0.540	0.090	1.030	0.020	--	--	0.014	--	98.13	20.6	19.3	8.0
209-8	R151525	016070562-5	AA3003-H14	0.080"±48"±144"	0.080	1.622	1.696	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.0
210-1	R151643	016070725-1	AA3003-H14	0.250"±48"±144"	0.250	4.571	4.608	0.080	0.420	0.080	1.150	0.010	--	--	0.016	--	98.24	20.9	18.1	21.5
210-2	R151643	016071034-1	AA3003-H14	0.190"±48"±144"	0.189	4.591	4.596	0.080	0.460	0.080	1.110	0.010	--	--	0.012	--	98.24	21.2	18.7	21.5

MATERIAL CONFORMS TO ALLOY 5052, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/88 AND AMS-4016L AND MATERIAL IN ALLOY 3003, H14 /5052.  
H32 CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.



# 浙江永杰铝业有限公司

## Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

### MILL TEST

To: EMPIRE RESOURCES, INC.  
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA  
TEL: 201.944.2200 X 123/ FAX: 201.944.2226

Invoice No.: YJ160817-4  
Date: AUG. 17, 2015

SHIPPING MARKS: N/M

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
210-3	R15166C	016071022-2	AA3003-H14	0.125"48"C	0.125	4.301	4.336	0.090	0.450	0.080	1.090	0.010	-	-	0.011	-	98.26	21.2	15.1	12.0
210-4	R15166C	016071022-1	AA3003-H14	0.125"48"C	0.125	4.575	4.608	0.090	0.450	0.080	1.090	0.010	-	-	0.011	-	98.26	21.2	15.1	12.0
210-5	R151523	216070952-5	AA5052-H32	0.500"60"144"	0.499	1.694	1.794	0.080	0.230	0.009	0.040	2.470	-	0.005	0.021	0.170	90.95	31.3	23.8	24.5
210-6	R151523	216070952-2	AA5052-H32	0.500"60"144"	0.499	1.880	1.974	0.090	0.230	0.009	0.040	2.470	-	0.005	0.021	0.170	96.95	31.3	23.8	24.5
210-7	R151523	216070952-3	AA5052-H32	0.500"60"144"	0.499	1.884	1.978	0.090	0.230	0.009	0.040	2.470	-	0.005	0.021	0.170	96.95	31.3	23.8	24.5
210-8	R151526	016081194-1	AA3003-H14	0.063"48"144"	0.062	1.978	2.056	0.170	0.540	0.080	1.030	0.020	-	-	0.014	-	98.13	20.6	19.0	8.0
211-1	R151680	016070641-1	AA3003-H14	0.125"48"C	0.124	4.930	4.988	0.150	0.490	0.090	1.020	0.010	-	-	0.015	-	98.22	20.6	15.9	12.0
211-2	R151660	016061225-1	AA3003-H14	0.125"48"C	0.124	4.709	4.746	0.190	0.580	0.090	1.020	0.010	-	-	0.016	-	98.09	23.1	20.7	14.0
211-3	R151643	016070641-2	AA3003-H14	0.125"48"C	0.124	4.619	4.652	0.150	0.490	0.090	1.020	0.010	-	-	0.015	-	98.22	20.2	17.5	12.0
211-4	R151643	016061225-2	AA3003-H14	0.125"48"C	0.124	4.802	4.838	0.190	0.580	0.090	1.020	0.010	-	-	0.016	-	98.09	23.1	20.7	14.0
211-5	R151526	016061194-6	AA3003-H14	0.063"48"144"	0.062	1.998	2.076	0.170	0.540	0.080	1.030	0.020	-	-	0.014	-	98.13	20.6	19.0	8.0
211-6	R151526	016070625-3	AA3003-H14	0.063"48"144"	0.063	1.992	2.076	0.180	0.530	0.080	1.050	0.010	-	-	0.015	-	98.12	21.2	16.9	7.0
211-7	R151526	016061194-2	AA3003-H14	0.063"48"144"	0.062	2.000	2.076	0.170	0.540	0.080	1.030	0.020	-	-	0.014	-	98.13	20.6	19.0	8.0
212-1	R151660	016071045-1	AA3003-H14	0.125"48"C	0.124	4.456	4.490	0.070	0.430	0.090	1.110	0.010	-	-	0.012	-	98.27	21.9	20.2	9.5
212-2	R151660	016071045-2	AA3003-H14	0.125"48"C	0.124	4.549	4.594	0.070	0.430	0.090	1.110	0.010	-	-	0.012	-	98.27	21.9	20.2	9.5
212-3	R151649	016071181-1	AA5052-H32	0.125"48"C	0.125	4.414	4.454	0.090	0.210	0.010	0.010	2.300	-	-	0.010	0.200	97.17	31.5	26.3	10.6
212-4	R151649	016071181-2	AA5052-H32	0.125"48"C	0.125	4.122	4.156	0.090	0.210	0.010	0.010	2.300	-	-	0.010	0.200	97.17	31.5	26.3	10.6
212-5	R151629	016070631-3	AA3003-H14	0.063"48"120	0.063	2.007	2.058	0.160	0.510	0.080	1.000	0.010	-	-	0.015	-	98.22	21.2	19.5	8.0
212-6	R151629	016070625-4	AA3003-H14	0.063"48"120	0.063	2.010	2.070	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	21.2	16.9	7.0

MATERIAL CONFORMS FOR ALLOY 6062, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4038K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.  
H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4038K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

# 浙江永杰铝业有限公司

## Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

### MILL TEST

TO:  
EMPIRE RESOURCES, INC.  
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA  
TEL: 201.944.2200 X 123/ FAX: 201.944.2226

Invoice No.: YJ160817-4  
Date: AUG. 17, 2016

#### SHIPPING MARKS: N/M

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn -ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES		
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
212-7	R151629	016070631-5	AA3003-H14	0.063"-48"±120	0.063	2.005	2.068	0.160	0.510	0.080	1.000	0.010	-	-	0.015	-	98.22	21.2	19.6	8.0
212-8	R151629	016070561-3	AA3003-H14	0.080"-48"±120"	0.080	2.005	2.068	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	21.0	19.3	10.5
213-1	R151649	016060734-2	AA5052-H32	0.080"-60"°C	0.079	4.012	4.044	0.100	0.230	0.010	0.010	2.470	-	-	0.014	0.180	96.98	33.5	26.0	10.0
213-2	R151649	016060734-1	AA5052-H32	0.080"-60"°C	0.079	4.337	4.368	0.100	0.220	0.010	0.010	2.470	-	-	0.014	0.180	96.98	32.5	26.0	10.0
213-3	R151661	216080182-1	AA5052-H32	0.190"-60"°C	0.187	4.302	4.334	0.100	0.270	0.010	0.040	2.480	-	0.007	0.018	0.170	96.85	34.1	25.1	15.5
213-4	R151661	216080182-2	AA5052-H32	0.190"-60"°C	0.187	4.284	4.316	0.100	0.260	0.010	0.030	2.550	-	0.007	0.016	0.170	96.81	34.8	26.1	14.0
213-5	R151632	016071191-3	AA5052-H32	0.520"-48"±144"	0.494	1.652	1.736	0.080	0.250	0.010	0.010	2.430	-	-	0.011	0.200	96.99	32.9	26.1	22.0
213-6	R151632	016071191-4	AA5052-H32	0.520"-48"±144"	0.494	1.652	1.732	0.080	0.250	0.010	0.010	2.430	-	-	0.011	0.200	96.99	32.9	26.1	22.0
213-7	R151632	016071191-2	AA5052-H32	0.520"-48"±144"	0.494	1.656	1.728	0.080	0.250	0.010	0.010	2.430	-	-	0.011	0.200	96.99	32.9	26.1	22.0
213-8	R151623	016071133-6	AA5052-H32	0.375"-48"±120	0.369	1.631	1.634	0.090	0.240	0.010	0.020	2.400	-	-	0.013	0.180	97.04	32.2	26.7	21.5
213-9	R151629	016070562-4	AA3003-H14	0.080"-48"±120"	0.080	2.007	2.070	0.340	0.440	0.120	1.280	0.050	-	-	0.014	-	97.75	21.2	18.8	8.5
214-1	R151649	216080184-2	AA5052-H32	0.250"-60"°C	0.249	4.236	4.270	0.100	0.270	0.010	0.040	2.480	-	0.007	0.018	0.170	96.86	34.4	25.7	16.0
214-2	R151649	216080184-1	AA5052-H32	0.250"-60"°C	0.249	4.326	4.358	0.100	0.270	0.010	0.040	2.480	-	0.007	0.018	0.170	96.85	34.4	25.7	16.0
214-3	R151649	016070351-1	AA5052-H32	0.190"-48"°C	0.190	4.299	4.330	0.120	0.250	0.010	0.020	2.300	-	-	0.014	0.180	97.09	33.4	24.9	13.5
214-4	R151649	016071063-1	AA5052-H32	0.190"-48"°C	0.190	4.329	4.362	0.080	0.240	0.010	0.010	2.380	-	-	0.010	0.160	97.11	33.4	24.2	16.0
214-5	R151644	016071044-3	AA3003-H14	0.190"-48"±120"	0.189	2.118	2.186	0.070	0.430	0.090	1.110	0.010	-	-	0.012	-	98.27	22.5	19.3	19.0
214-6	R151644	016071044-4	AA3003-H14	0.190"-48"±120"	0.139	2.112	2.184	0.070	0.430	0.090	1.110	0.010	-	-	0.012	-	98.27	22.5	19.3	19.0
214-7	R151645	016070663-6	AA3003-H14	0.090"-48"±120"	0.090	2.044	2.112	0.320	0.470	0.110	1.320	0.010	-	-	0.015	-	97.75	20.7	19.5	11.5
214-8	R151645	016070623-4	AA3003-H14	0.090"-48"±120"	0.088	2.043	2.106	0.180	0.530	0.090	1.050	0.010	-	-	0.015	-	98.12	20.3	18.8	11.5

MATERIAL CONFORMS TO ALLOY 5052, H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4088, COUNTRY OF MELT AND MANUFACTURE IN CHINA.  
H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4088, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

# 2610

FAL 381

TR

47300

Copie d'archive

Material Test ReportManifest: 272337Ticket:  
5345729

Our Order: 400728 - 6

Cust P.O.: LAV-15648

Die: ES05691

Part: 3420604

Alloy Temper: 6061 T6

Description: .375 x 1.000

Print Date: 1/15/14

Chemical Composition Range

6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	DAS	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
500686	988	13121091A	A11	1/14/14	41.76	37.37	11.4

Applicable Specifications: ASTMB221-13 QQA200/8

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:

  
Evan Eng. Quality Assurance Mgr

code 5168

## Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201  
LAVAL, QC  
H7L5R2**

# commande order # : **6120924**

# bon de commande / Purchase order # : **OU-47030**

# de matrice / Die # : **MS 9907**

Description : **5/8" DIA ROD**

Alliage & trempage / Alloy & temper : **6061 T6**

Longueur / Length : **6097 mm**

# de contrôle / Control # : **82387-1**

# de coulée / Cast # :

**68259**

Dureté Rockwell E /  
Rockwell E hardness : **89 HRE**

Min. requis /  
Min. required : **88 HRE**

Max. permis /  
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66 - 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	---	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the **ASTM B-221-14** except for section 8.2 (number of specimen) .

Sincèrement vôtre,  
Yours truly,

date : **2017-02-02**

Daniel Alfredo Pelletier  
Directeur Qualité  
Quality Director



Nanshan America  
Advanced Aluminum Technologies

3600 US Hwy 52 South  
Lafayette, Indiana 47909  
Main Office: (765) 269-4360

210026 C 174311  
CERTIFIED INSPECTION REPORT  
FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
102398	9

BILL TO 10088-Sinobac Resources, LLC	MANIFEST NUMBER 4993	DNF NUMBER 1023	DATE OF SHIPMENT 1/27/2015
SHIP TO 10088 - S01-Port Transportation Inc.	CUSTOMER PO U-15007	ALLOY 6061 ✓	TEMPER T6511 ✓
CUSTOMER PART NUMBER 1075311	CUSTOMER PART NUMBER 40-00391	SALESMAN Dennis Barton	DESCRIPTION Rod 3.500" Diameter, Stenciled

Applicable Requirements  
ASTM B221-13 AMS-QQ-A-200/8 (2012-09)  
T6511 also conforms to T6 ASME SB221 -  
1998 sect II

Melted in USA  
Manufactured in USA

**Mechanical Properties**

Lot	Alloy	Test No.	DAS	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
102398 9 1-A-1 ✓	6061	150162	49	89 01/25/15	55.4	49.2	15%		

**Chemical Limits**

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
ALLOY 6061																				
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15
Density:	Electrical Conductivity:										Thermal Conductivity:									
											Alloy Constant:									

**Chemical Composition**

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
1501069	6061	0.69	0.31	0.32	0.07	0.88	0.08	0.01	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.60	0.00

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Edward Armarcik  
Quality Manager

TR 312250  
TR 4188

Certificat d'analyse

935 BOUL. DU HAVRE  
VALLEYFIELD Quebec J6S 5L1  
Canada

2016-09-14

L304168

69755

L108667

Description	Dimensions	PCS	N° de COULÉE	REMARQUES
Tube HSS, Form. Froid	3.500 X 0.250 X 288.000	19 781139	ASTM A500-13 GRADE B / GRADE C	4/6406
Tube HSS, Form. Froid	4.000 X 0.188 X 288.000	24 823708	ASTM A500-13 GRADE B / GRADE C	4/6407

N° de COULÉE	C	Mn	P	S	Ca	Si	CU	N	C	Z	Co	Mo	V	A	2	N	As	S	T
781139	0.1900	0.8100	0.0150	0.0120	0.0002	0.0260	0.0650	0.0210	0.0370		0.0050	0.0070	0.0000	0.0500		0.0040	0.0100	0.0002	0.0020
823708	0.1900	0.8100	0.0110	0.0060	0.0002	0.0150	0.0360	0.0140	0.0340		0.0060	0.0040	0.0000	0.0410		0.0040	0.0060	0.0002	0.0020

N° de COULÉE	PRODUIT/GRANDEUR	Lim. d'élast.	Reist. traction	allong.
781139	HSS 3.500 X 0.250	64900	72800	29.00
823708	HSS 4.000 X 0.188	62700	73600	28.00

N° de COULÉE	FABRIQUE AU(X)
781139	Canada
823708	Canada

LES TUBES D'ACIER IDENTIFIÉS SUR CE CERTIFICAT SONT FABRIQUÉS AU CANADA SUIVANT LES EXIGENCES SPÉCIFIÉES LA COMPOSITION CHIMIQUE DU MATÉRIEL PROVIENT DU FOURNISSEUR D'ACIER LES RÉSULTATS PHYSIQUES ET MÉCANIQUES SUR CE CERTIFICAT ON ETC OBTENUS SUIVANT LES EXIGENCES PROPRES AU GRADE ET COPIE DES TESTS EST CONSERVÉE DANS NOS DOSSIERS POUR LA PERIODE REQUISE.



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1304B0.625X3.000

PO / BATCH NO.: PO36 707/1137844

DATE: JUN 27 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .625

QUANTITY RECEIVED: 12.9'

THICKNESS RECEIVED: .640

QUANTITY INSPECTED: 12.9'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A276
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	REF # 56170113
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.  
RECORD RESULTS BELOW

TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u>	SIGNED OFF BY: _____		
DATE: <u>9-89</u>	DATE: <u>JUN 27 2017</u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE  
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B-TTT X WWW.WWW/THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WWW" = WIDTH IN INCHES

EG. 0.5" X 3.0" BAR = M304B0.500X03.000  
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED  
2010-11-30  
NW

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE FROM 304/316 BAR TO 304/316 BAR/PLATE	MB	10.11.25
B	REFORMAT Dwg. ADD SPECS (2N DB-1), REF PAR 08-020A	CP	08.07.15
A	NEW ISSUE	PH	05.08.10
REV	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	PH		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH		
DATE	10.11.25		
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DART AEROSPACE LTD  
HAWKESBURY, ONTARIO, CANADA  
DRAWING NO. M304B  
TITLE 304/316 BAR/PLATE  
REV. C  
SHEET 1 OF 1  
SCALE NTS

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B2 7500  
 DATE: JUN 27 2017

PO / BATCH NO.: 036707/m37844

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 24'  
 QUANTITY INSPECTED: 24'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750  
 THICKNESS RECEIVED: .747  
 SHEET SIZE ORDERED:   
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A276
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	It # Ch-4835
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>5</u>		SIGNED OFF BY: <u></u>	
DATE: <u>9-89</u> <u>JUN 27 2017</u>		DATE: <u></u>	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A276

PART NUMBER:

M304R-DDD  
DIA.

WHERE "D.D.D." = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M304R0.750

RELEASED  
07/08/23/14

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	09.07.15
A	NEW ISSUE	A/S	08.03.03
REV	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	qj		
CHECKED	h		
MFG. APPR.	MJ		
APPROVED	MJ		
DE APPR.	MJ		
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M304R		SHEET 1 OF 1	
TITLE 304/316 ROUND BAR		SCALE NTS	
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304SIGGA  
 DATE: JUN 27 2017

PO / BATCH NO.: 0036707/M137844

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 6459ft  
 QUANTITY INSPECTED: 6459ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063  
 THICKNESS RECEIVED: .059  
 SHEET SIZE ORDERED: 4x8  
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A240
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	47# 849874
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>5</u>	DATE: <u>9-89</u> <u>JUN 27 2017</u>	SIGNED OFF BY: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET  
ANNEALED

SPECIFICATION:

MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
OR ASTM A240  
OR ASME SA240

FINISH:

FINISH  
UNPOLISHED No. 1  
UNPOLISHED No. 2D  
UNPOLISHED No. 2B  
POLISHED No. 3  
POLISHED No. 4  
BUFFED No. 6  
BUFFED No. 7  
BUFFED No. 8

DART M-NUMBER  
IDENTIFIER  
1P  
2D  
NONE  
3P  
4P  
6P  
7P  
8P

PART NUMBER:

M304S TT GA #P  
GA

WHERE "TT" = GAUGE THICKNESS  
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA  
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.02	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.109375	0.089 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED  
2015 FEB 04  
ECN 15-372

D	ADDED GAUGES 0.7.	AJS	15.01.06
C	DEFINED FINISH OPTION (2N C8) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (2N B5).	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (2N D8-1). ADD GAUGE REF (C8-1). REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.08.24
REV.		BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
TITLE 304/316 SS SHEET			
REV. D			
SHEET 1 OF 1			
SCALE NTS			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 15052H32S.040

PO / BATCH NO.: PO36707/M137844

DATE: JUN 27 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .040

QUANTITY RECEIVED: 6459ft

THICKNESS RECEIVED: .038

QUANTITY INSPECTED: 6459ft

SHEET SIZE ORDERED: 4x8'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	Asm B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	Ht # 14366-2-5-1
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>5</u>	SIGNED OFF BY: _____		
DATE: <u>9-89</u> <u>JUN 27 2017</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/8 OR AMS-QQ-A-250/8

OR AMS-QQ-A-250/8  
OR ASTM B209

PART NUMBER:

M5052H32S | XXX  
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M5052H32.063

PREFERRED SIZE:

XXX BY 4FT BY 8FT

RELEASED  
N 2009-10-30  
MP

REV.	DESCRIPTION	CP	DS	BY	DATE
A	REFORMAT DWG, ADD B209 SPEC (2N DB-1), PAR 08-020A				09 09 26
	DESIGN				
	DRAWN				
	CHECKED				
	MFG. APPR.				
	APPROVED				
	DE APPR.				
	DATE				09 09 26
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M5052H32S TITLE 5052-H32 SHEET SPEC REV. B SHEET 1 OF 1 SCALE NTS COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.					

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MC6061-T6 80.375X1000  
 DATE: JUN 27 2017

PO / BATCH NO.: PO 36707 / 1137844

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 40'  
 QUANTITY INSPECTED: 40'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375  
 THICKNESS RECEIVED: .375  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	HT #13121091A
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY: <u>DAS</u> <u>5</u> DATE: <u>9-89</u>	SIGNED OFF BY: _____ DATE: _____		
<u>JUN 27 2017</u>			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

△ SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES  
E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	qj		
CHECKED	ASS		
MFG APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD		REV. B	
DRAWING NO. M6061T6B		SHEET 1 OF 1	
TITLE 6061-T6 BAR		SCALE NTS	
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RELEASED  
2009-09-03  
JWD

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6R0.625  
 DATE: JUN 27 2017

PO / BATCH NO.: 036707/1137844

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 20'  
 QUANTITY INSPECTED: 20'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625  
 THICKNESS RECEIVED: .628  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	#1 # 68259
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY: <u>DAS 5</u> DATE: <u>9-89 JUN 27 2017</u>		SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R1D DDD  
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.525

**RELEASED**  
2009-08-09  
MFD

B	REFORMAT DWG. ADD B211 & B221 SPEC (2N 06-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617CR3.500  
 DATE: JUN 27 2017

PO / BATCH NO.: PC36707/M137844

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.500"  
 THICKNESS RECEIVED: 3.500"  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	457m B221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	H# #1501624
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b> INSPECTED BY: <u>5</u> DATE: <u>JUN 27 2017</u>	<b>ENGINEERING SIGNOFF (if required)</b> SIGNED OFF BY: _____ DATE: _____
---	---

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R/D DDD  
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R/D 625

RELEASED  
2009-09-09  
NAD

B	REFORMAT DNG ADD B2118 B221 SPEC (2N D8-1), REF PAR 09-020A	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND IS RELEASED FOR PUBLIC USE UNLESS INDICATED OTHERWISE BY THE ORIGINAL ORIGINATOR			



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 1 of 5

**Order From :**

VC-CAM002

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

JUN 15 2017

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Economy collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3S.040	2024-T3 .040 sheet	6/26/2017 Yes 6/26/2017		48.00 sf	\$11.44	\$549.02
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$549.02
2	M304B0.625X3.000 ✓	304 BAR .625 X 3.00 ✓	6/26/2017 Yes 6/26/2017		12.00 ✓ recu 12.9.	\$24.25	\$291.00
MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE							
2017-6-20 Line Total:							\$291.00

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note:

6/15/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36707

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 2 of 5

**Order From :**

VC-CAM002

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Economy collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

3	M304RO.750 ✓	304 SS Roundbar .750 ✓	6/26/2017	24.00	\$4.66	\$111.73
---	--------------	------------------------	-----------	-------	--------	----------

Yes

6/26/2017

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

*recu 24.8f.*

**Line Total: \$111.73**

4	M304S16GA ✓	304/316 Sheet .063 ✓	6/26/2017	64.00 ✓	\$6.51	\$416.56
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Yes

6/26/2017

PURCHASE MATERIAL: AISI 304/316 SS SHEET  
ANNEALED  
SPECIFICATION: MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
ORASTMA240  
OR ASME SA240

**Line Total: \$416.56**

5	M5052H32S.040 ✓	5052-H32 .040 Sheet ✓	6/26/2017	64.00 ✓	\$2.65	\$169.60
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Yes

6/26/2017

MATERIAL: 5052-H32 ALUMINUM SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

*SP17-6-20*

**PO Instructions:** QUOTATION: SOU0039744, SOU0039961

**Note:**

6/15/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36707

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 3 of 5

**Order From :**

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

VC-CAM002

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Economy collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

**Line Total:** \$169.60

6 M6061T6B0.375X01.000 ✓ 6061T6 BAR .375 x 1.00 ✓ 6/26/2017 40.00 ✓  
Yes  
6/26/2017

\$1.12 \$44.81

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$44.81

7 M6061T6R0.625 ✓ 6061-T6 Round Bar .625" ✓ 6/26/2017 20.00 ✓  
Yes  
6/26/2017

\$0.97 \$19.49

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$19.49

2017-6-20

**PO Instructions:** QUOTATION: SOU0039744, SOU0039961

**Note:**

6/15/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
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Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36707

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 4 of 5

**Order From :**

VC-CAM002

**Ship To :** DART AEROSPACE LTD

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Economy collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

8	M6061T6R3.500	6061 RD bar 3.50	6/26/2017	12.00	\$35.17	\$422.00
			Yes	f		
			6/26/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$422.00

9	71900-90	TUBE ROUND 3.500" OD X .250" HSS	6/26/2017	1.00	\$166.74	\$166.74
			Yes	Each		
			6/26/2017			

1 LENGHT 24 FT

**Line Total:** \$166.74

**Deliver To:** IAN

**PO Instructions:** QUOTATION: SOU0039744, SOU0039961

**Note:**

6/15/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36707

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 5 of 5

**Order From :**

VC-CAM002

**Ship To :** DART AEROSPACE LTD

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Economy collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

10 71401-45

PROCUREMENT  
QUALITY CLAUSES

6/26/2017

1.00

\$0.00

\$0.00

No

6/26/2017

**Procurement Quality Clauses**

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality document

8017-16-20

**Line Total:**

**\$0.00**

**PO Total:**

**\$2,190.95**

**PO Instructions:** QUOTATION: SOU0039744, SOU0039961

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

**Change Nbr:** 5

**Change Date:** 6/15/2017